Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Topic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Score: \_\_\_\_\_\_\_\_\_\_/25 pts

**Biology Lab Report Rubric**

**Reports must be typed and printed.**

*Due at beginning of class on due date. Each day late = minus one letter grade*

**Cover page with title**, name, date of Investigation, and due date **\_\_\_\_\_\_\_/ 1pt**

* Title should concisely explain the purpose of the investigation (e.g., the effect of additional nitrogen fertilizer on the growth rate of corn)

**Introduction \_\_\_\_\_\_/3 pts**

* Includes question/purpose of investigation
* Provides accurate and sufficient background information which helps reader understand key points of lab
* Describes the variables, constants, and control group(s) of lab

**Hypothesis \_\_\_\_\_\_\_/2 pts**

* Clearly states relationship between independent and dependent variables AND provides reasoning. Format: *If…[IV changes]…then [DV changes]…because…”.*

**Materials \_\_\_\_\_\_\_/ 2 pts**

* Make a list of ALL materials used in this experiment *(for example include spoon if you used it to scoop the potato much);* Be sure to include quantities

**Procedures \_\_\_\_\_\_\_/ 3 pts**

* Write a list of instructions that explains what you did in your lab. Written so that anyone reading your lab report will be able to duplicate (copy) the experiment

**Results/Data \_\_\_\_\_\_\_/ 4 pts**

* Includes data table for each tested variable
* Includes a graph of the data which is labeled appropriately (title, labeled x and y axis, data, etc.)

**Analysis \_\_\_\_\_\_\_/ 2 pts**

* Include a brief discussion of data (describes trends or significant findings)

**Discussion and Conclusion \_\_\_\_\_\_\_\_\_\_/5 pts**

* Was your hypothesis supported by your data?

* Why do you say that your hypothesis was supported or not supported by the data? Use data in your explanation.
* Include a summary of the data (ex. highest, lowest, etc.) to help the reader understand your results. Explain any trends (or lack of trends) in the data.
* Describe a possible error that may have occurred during the experiment. Explain how the error could have affected the data. Include adjustments/improvements for future experiments.
* Describe at least one thing you learned from the lab and relate it to real life experience.

**Questions \_\_\_\_\_/ 1 pt**

* What are questions for further investigation? What new questions arise from the results of the investigation?

**Literature Cited \_\_\_\_\_/ 1 pt**

* Valid sources cited within report and listed at end of report

**Language and formatting\_\_\_\_\_/ 1 pt**

* Grammar, punctuation (including subscripts/superscripts) and spelling all correct
* Formatting is consistent and aesthetically pleasing